

# QPSK Rate 3/4

## Budgets

		1	2	3	4	5	
		13 meter Feeder Link E/S Nominal Feeder Link Site	13 meter Feeder Link E/S Nominal Feeder Link Site	13 meter Feeder Link E/S Nominal Feeder Link Site	13 meter Feeder Link E/S Nominal Feeder Link Site	13 meter Feeder Link E/S Nominal Feeder Link Site	13 m Nominal
		to	to	to	to	to	
		45 cm Receive-Only	45 cm Receive-Only	45 cm Receive-Only	60 cm Receive-Only	60 cm Receive-Only	7
M)	(kbps)	27,647 3/4 188/204	27,647 3/4 188/204	27,647 3/4 188/204	27,647 3/4 188/204	27,647 3/4 188/204	
	(%)	44.7% QPSK	44.7% QPSK	44.7% QPSK	44.7% QPSK	44.7% QPSK	
	(%)	20	20	20	20	20	
	(°East)	-118.9	-118.9	-118.9	-118.9	-118.9	
	(name)	Gilbert	Gilbert	Gilbert	Gilbert	Gilbert	
	(°East)	-111.8	-111.8	-111.8	-111.8	-111.8	
	(°North)	33.4	33.4	33.4	33.4	33.4	
	(Km)	37,050	37,050	37,050	37,050	37,050	
	(°)	50.4	50.4	50.4	50.4	50.4	
	(m)	300.0	300.0	300.0	300.0	300.0	
		Florida	New York	California	Alaska	Hawaii	
(°East)	-80.3	-74.0	-118.2	-149.8	-157.8		
(°North)	25.9	40.8	34.0	61.2	21.3		
(km)	37,954	39,114	37,049	39,950	37,799		
(°)	37.8	24.5	50.5	16.1	39.8		
(m)	1.0	15.0	33.0	80.0	0.0		
satellite)	(MHz)	17,550	17,550	17,550	17,550	17,550	
	(W)	12.0	12.0	12.0	12.0	12.0	
	(dBW)	10.8	10.8	10.8	10.8	10.8	
	(dB)	1.0	1.0	1.0	1.0	1.0	
	(dBW)	9.8	9.8	9.8	9.8	9.8	
	(m)	13.0	13.0	13.0	13.0	13.0	
	(%)	65	65	65	65	65	
	(dB)	65.7	65.7	65.7	65.7	65.7	
	(dBW)	75.5	75.5	75.5	75.5	75.5	
	(dB)	0.1	0.1	0.1	0.1	0.1	
	(dB)	0.31	0.31	0.31	0.31	0.31	
	(%)	99.9	99.9	99.9	99.9	99.9	
	(dB)	2.7	2.7	2.7	2.7	2.7	
	(dB)	208.7	208.7	208.7	208.7	208.7	
	(dBW/m <sup>2</sup> )	-90.0	-90.0	-90.0	-90.0	-90.0	
(dB)	5	5	5	5	5		
(dB/K)	11.6	11.6	11.6	11.6	11.6		